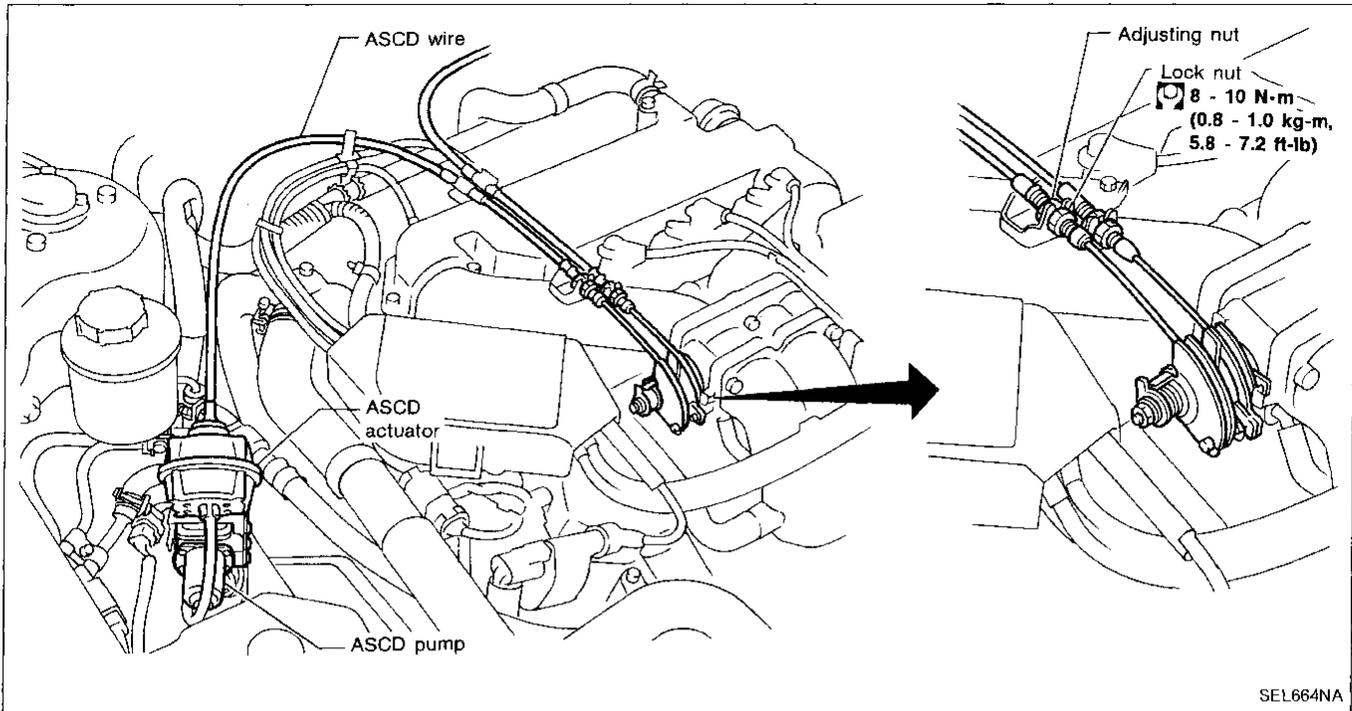


ASCD Wire Adjustment



CAUTION:

- Be careful not to twist ASCD wire when removing it.
- Do not tense ASCD wire excessively during adjustment.

After confirming that accelerator wire is properly adjusted, adjust the tension of ASCD wire in the following manner.

- (1) After adjusting the length of the accelerator wire, turn a securing nut by 1/2 to 1 turn from throttle open starting position to the wire loosening direction to fix. (Must be securing carried out to prevent response delay of operation of the ASCD.)
 - (2) Securely tighten lock nut to hold adjusting nut in place.
- For ASCD cancel switch and clutch switch adjustment, refer to BR and CL sections.

AUTOMATIC SPEED CONTROL DEVICE (ASCD)

Trouble Diagnoses

Symptom	DIAGNOSTIC PROCEDURE
ASCD control unit cannot be set properly.	1
Resume switch will not operate.	2
Cancel switch will not operate.	3
Set speed cannot be canceled.	4
Engine hunts.	5
Large difference between set vehicle and actual speed.	6

GI

MA

EV

LC

EF &
EC

FE

CL

MT

AT

FA

RA

BR

ST

BF

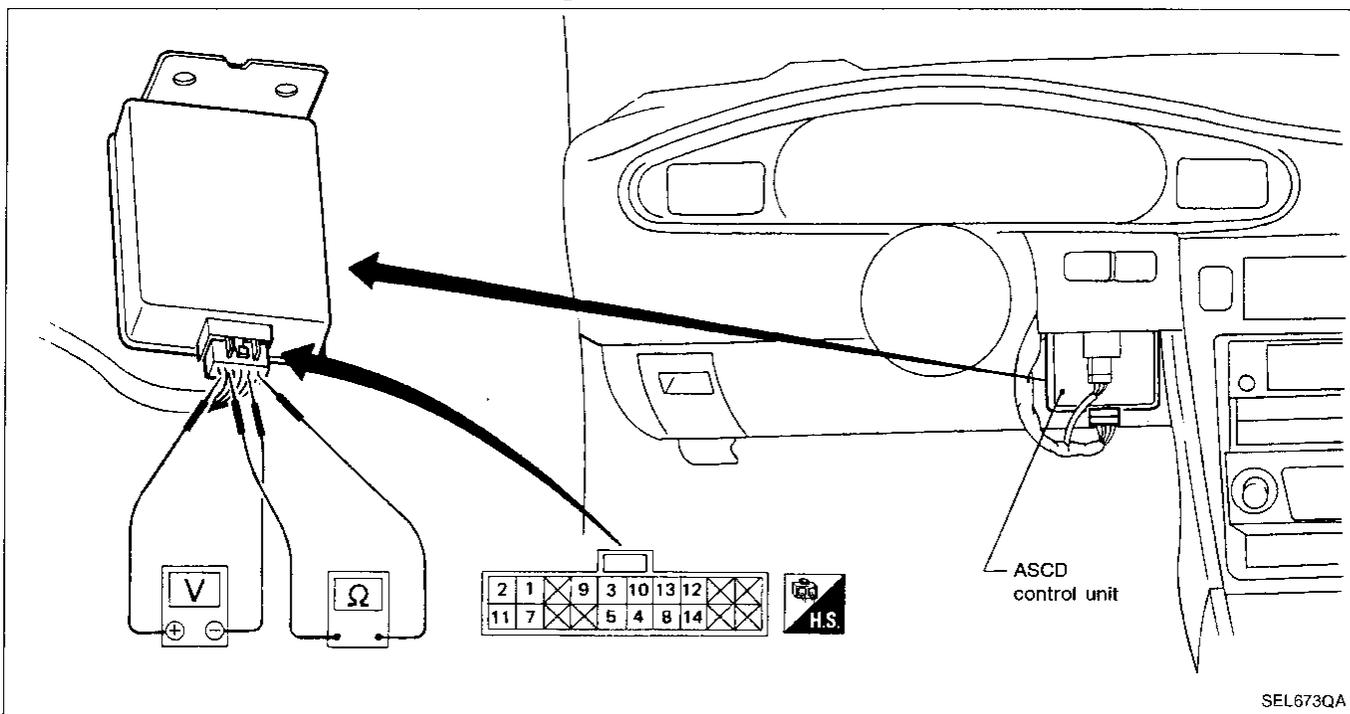
HA

EL

IDX

PREPARATION FOR TROUBLE-DIAGNOSIS

1. Remove lower trim.
2. Remove ASCD control unit with harness connected.
3. Perform check from harness side using circuit tester, with harness connector connected.



GROUND CIRCUIT CHECK

- Check continuity between ③ and body ground.

AUTOMATIC SPEED CONTROL DEVICE (ASCD)

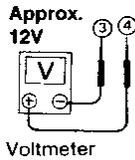
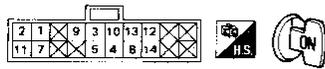
Trouble Diagnoses (Cont'd)

DIAGNOSTIC PROCEDURE-1

ASCD control unit cannot be set properly.

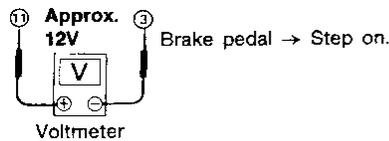
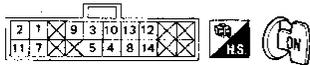
POWER SUPPLY CIRCUIT CHECK

1. Turn ASCD main switch to "ON".
2. Check voltage between ④ and ③.



CUT-OFF CIRCUIT CHECK

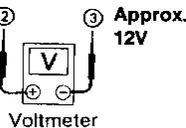
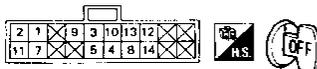
1. Step on brake pedal.
2. Turn ASCD main switch to "ON".
3. Check voltage between ① and ③.



SEL640QA

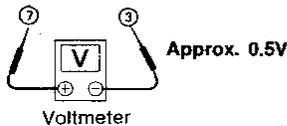
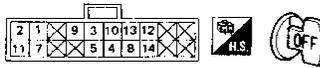
SET SWITCH CIRCUIT CHECK

1. Push ASCD set switch.
2. Check voltage between ② and ③.

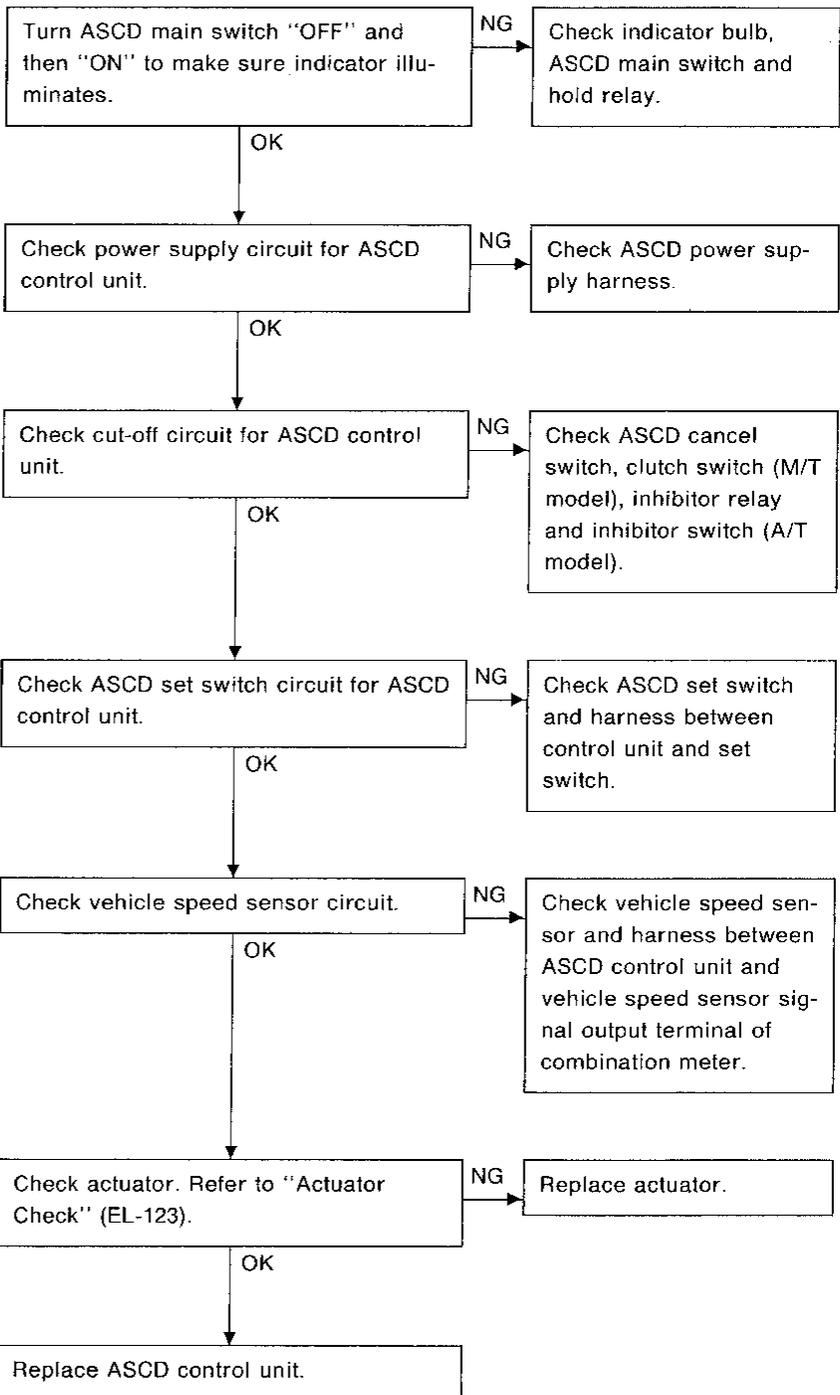


VEHICLE SPEED SENSOR CIRCUIT CHECK

1. Disconnect vehicle speed sensor from transmission.
 2. Connect a voltmeter between ⑦ and ③.
 3. Slowly turn vehicle speed sensor by hand to make sure voltmeter pointer deflects.
- Voltmeter pointer deflects twice per rotation of pinion.



SEL641QA

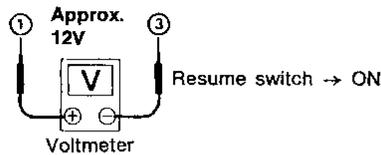
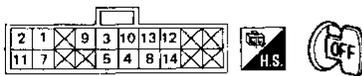


AUTOMATIC SPEED CONTROL DEVICE (ASCD)

Trouble Diagnoses (Cont'd)

RESUME SWITCH CIRCUIT CHECK

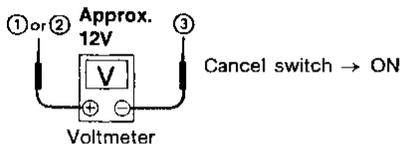
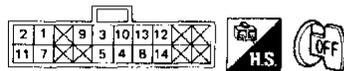
1. Turn resume switch to "ON".
2. Check voltage between ① and ③



SEL549R

CANCEL SWITCH CIRCUIT CHECK

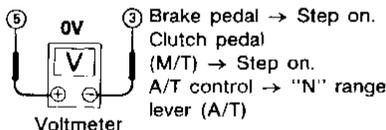
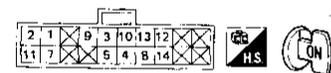
1. Turn cancel switch to "ON".
2. Check voltage between ② and ③ or ① and ③.



SEL550R

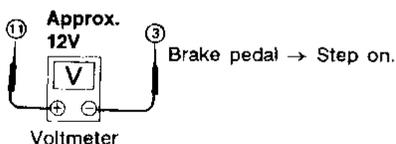
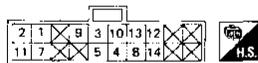
CUT-OFF CIRCUIT CHECK

1. Turn ASCD main switch to "ON".
2. Turn ASCD main switch to "ON" again.
3. Step on brake pedal.
4. Step on clutch pedal (M/T) or shift in "N" range (A/T).
5. Check voltage between ⑤ and ③.



STOP LAMP CIRCUIT CHECK

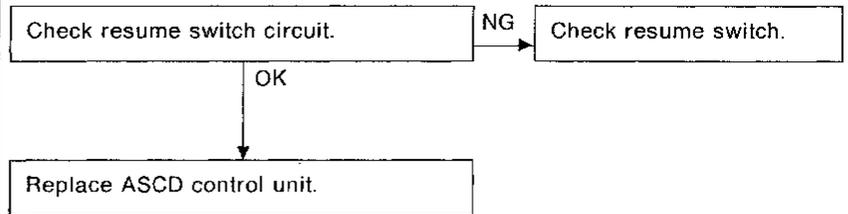
1. Step on brake pedal.
2. Check voltage between ① and ③.



SEL644QA

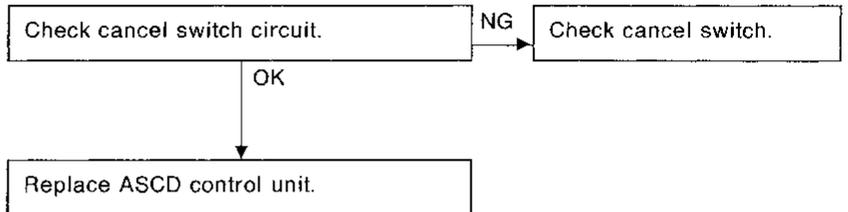
DIAGNOSTIC PROCEDURE-2

Resume switch will not operate.



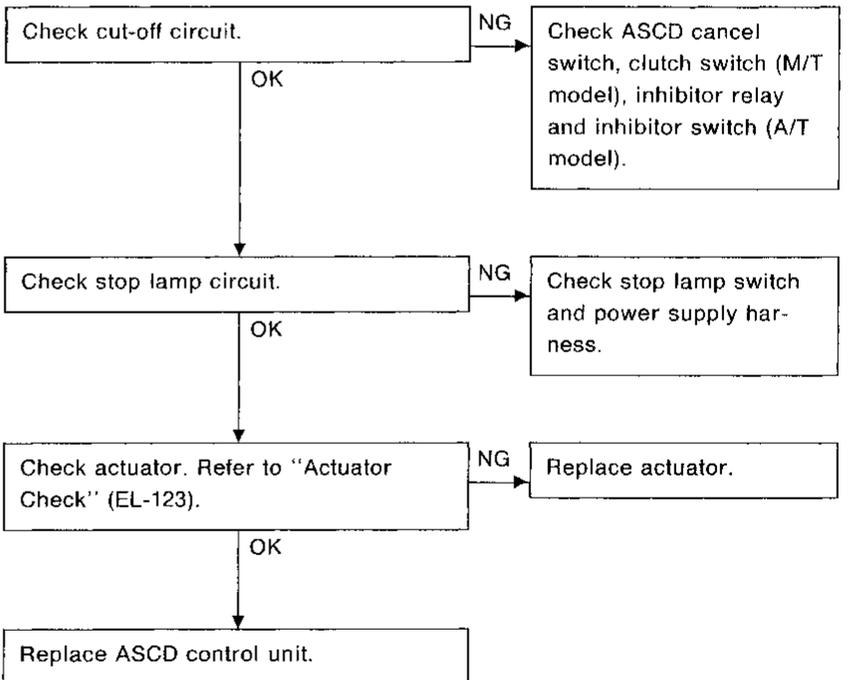
DIAGNOSTIC PROCEDURE-3

Cancel switch will not operate.



DIAGNOSTIC PROCEDURE-4

Set speed cannot be canceled.

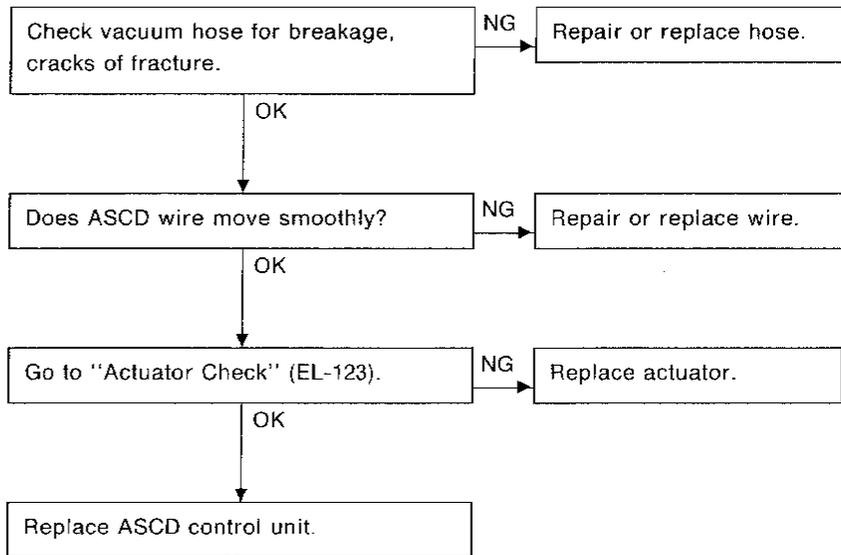


AUTOMATIC SPEED CONTROL DEVICE (ASCD)

Trouble Diagnoses (Cont'd)

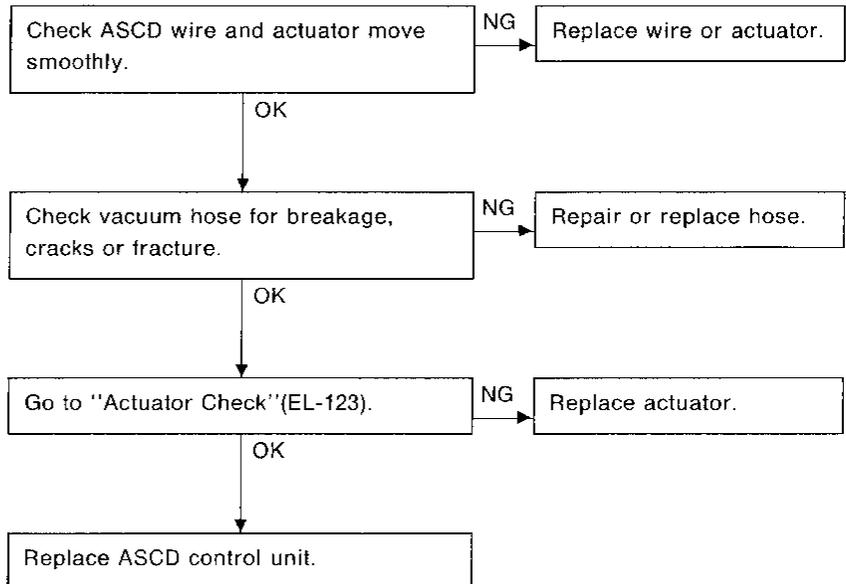
DIAGNOSTIC PROCEDURE-5

Engine hunts.

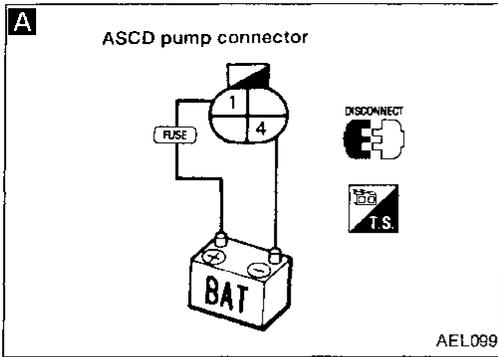


DIAGNOSTIC PROCEDURE-6

Large difference between set vehicle speed and actual speed.

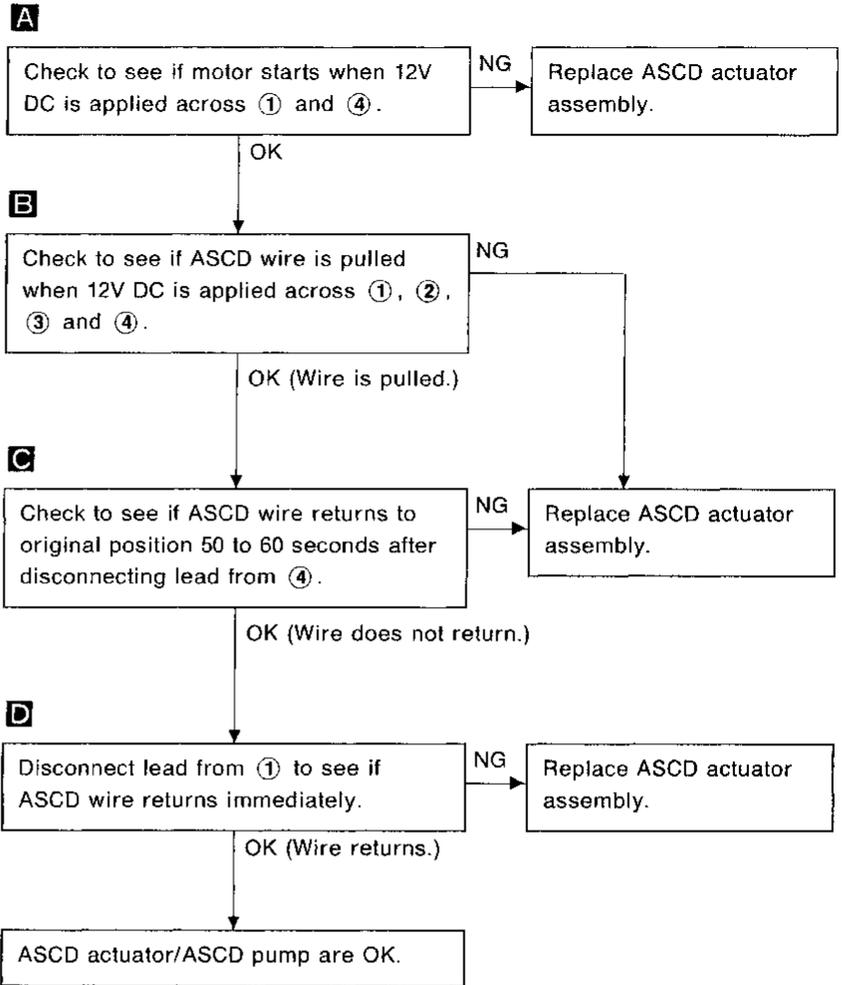
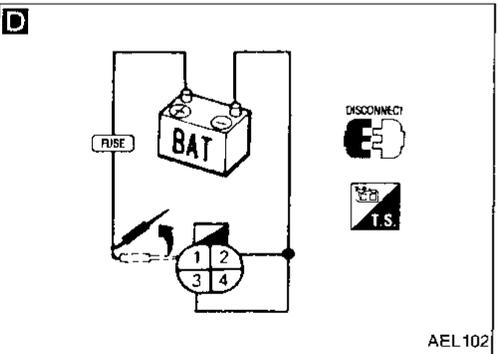
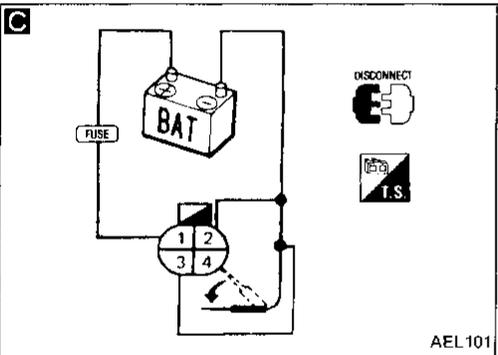
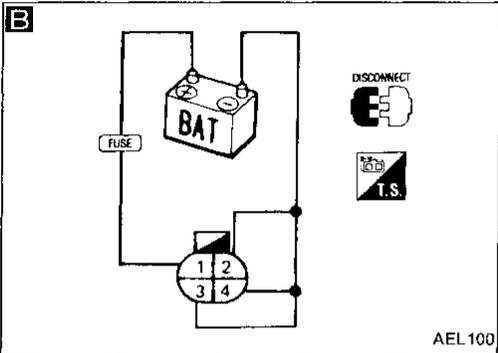


AUTOMATIC SPEED CONTROL DEVICE (ASCD)



Actuator Check

1. Disconnect ASCD actuator/ASCD pump connector.
2. Check ASCD actuator/ASCD pump operations as shown.



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AUTOMATIC SPEED CONTROL DEVICE (ASCD)

NOTE